

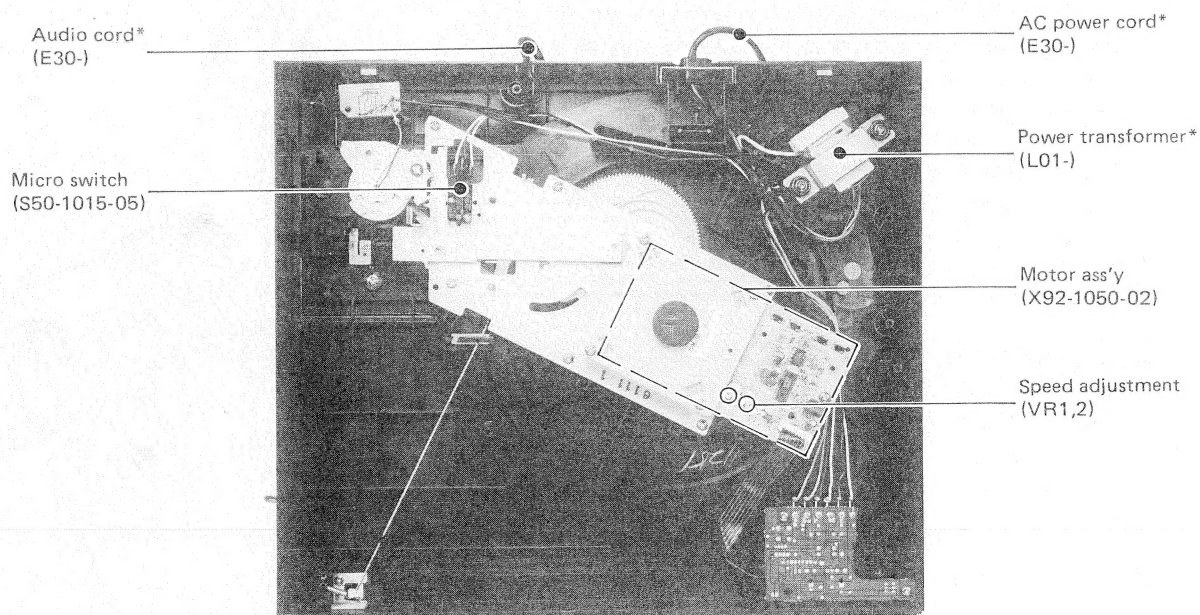
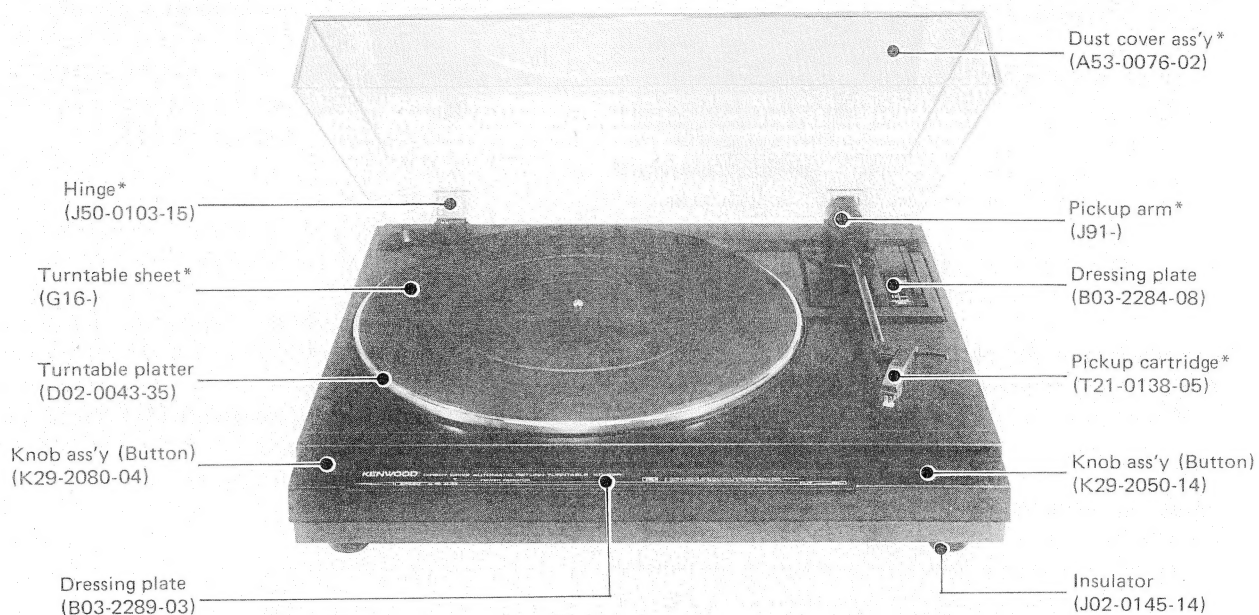
DIRECT DRIVE AUTOMATIC RETURN TURNTABLE

KD-56R

SERVICE MANUAL

KENWOOD

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B51-3220-00 (O) 2170



*Refer to parts list on page 8.

Photo is KD-56R.

ADJUSTMENT/REGLAGE/ABGLEICH

ADJUSTMENT

Stylus height adjustment

- (1) Loosen the lifter screw ①
- (2) Adjust the vertical position of the lifter so that the stylus is positioned at an appropriate height (8 m/m).

Auto-return position adjustment

- (1) Set a screwdriver as shown Fig. 1. Turn it counter-clockwise to shift the auto-return position outward, and vice versa. ②
- (2) When using test record (W05-0036-00), perform the following.
 - (a) The auto-return mechanism should not operate until the count of 21 is reached on the latter half of the side B.
 - (b) The auto-return mechanism should operate between the counts of 1 and 4 on the side A.

Speed adjustment (45 rpm, 33 1/3 rpm)

- (1) Adjust the trimming pot (VR1,2) on the PC board. (Refer to internal view on page 1).

REGLAGE

Réglage de la hauteur de pointe de lecture

- (1) D'esserrer la vis de lève-bras ①
- (2) Ajuster la position verticale du lève-bras de façon à ce que la pointe de lecture soit placée sur la hauteur appropriée (8 m/m).

Réglage de la position de retour automatique

- (1) Placer le tournevis de la manière indiquée Fig. 1. La tourner vers la gauche (sage de la horloge de jeton) afin de centrer la position de retour automatique vers le dehors et vice-versa. ②
- (2) Lorsqu'on utilise le disque d'essai (W05-0036-00) procéder de la façon suivante.
 - (a) Le mécanisme de retour automatique ne doit pas fonctionner jusqu'à ce que le numéro 21 soit atteint sur la dernière partie de la B face.
 - (b) Le mécanisme de retour automatique doit fonctionner entre les numéros 1 et 4 de la A face.

Réglage de vitesse (45 t, 33 1/3 t)

- (1) Ajuster la résistance trimmer (VR1,2) du circuit imprimé. (Voit page de couverture).

ABGLEICH

Höhe Abgleichen der Nadels

- (1) Die Lifthebelschraube ① lösen.
- (2) Die senkrechte Position des Lifhebels so justieren, daß sich die Nadel auf der richtigen Höhe befindet (8 m/m).

Justieren der Position der Rückführautomatik

- (1) Einen Schraubendreher wie Fig. 1 gezeigt einsetzen. Diesen nach links (Weisen der Uhr spielmarkes) drehen, um die Position der Rückführautomatik nach äußere zu verschieben, und umgekehrt ②
- (2) Bei Verwendung der Testplatte (W05-0036-00) wie folgt verfahren.
 - (a) Die Rückführautomatik sollte erst in Funktion treten, wenn die Zahl 21 auf der zweiten Hälfte der Seite-B erreicht wird.
 - (b) Auf der Seite-A sollte die Rückführautomatik zwischen den Zahlen 1 und 4 in Funktion treten.

Abgleichen der Geschwindigkeites (45 rpm, 33 1/3 rpm)

- (1) Den Justierwiderstand (VR1,2) auf der Leiterplatte einstellen. (Siehe Umschlagseite).

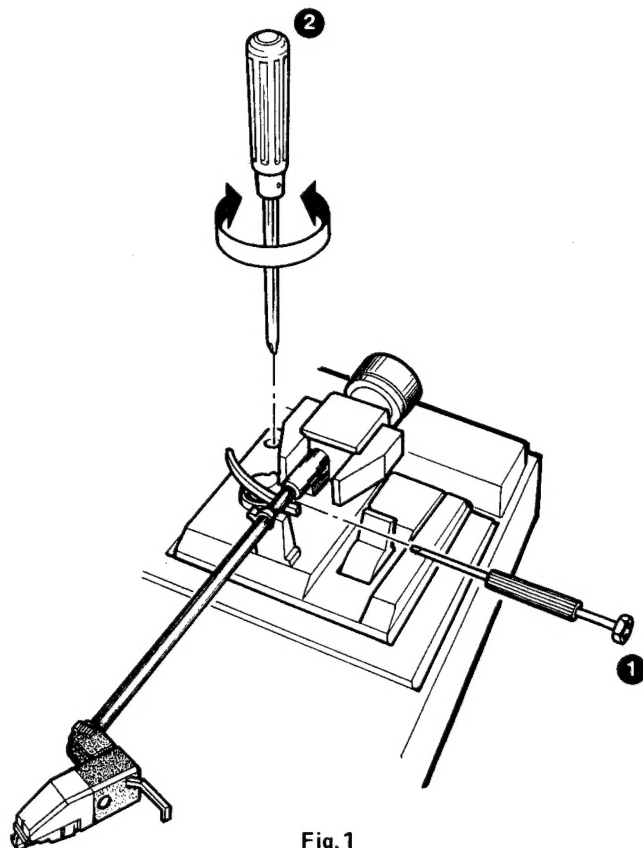


Fig. 1

PC BOARD

X29-1560-01

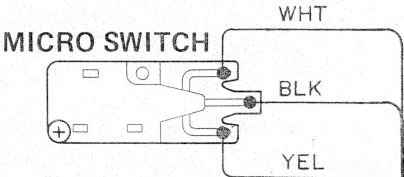
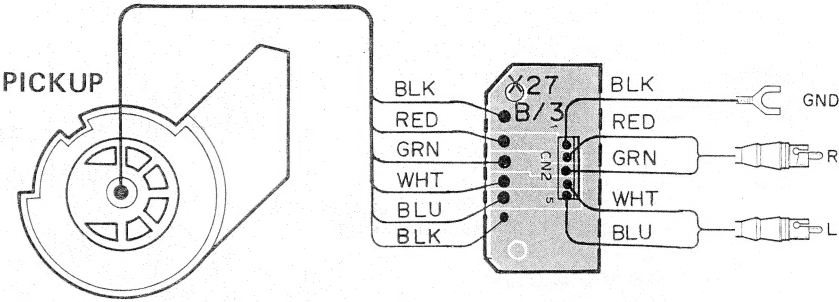
| | B | C | E |
|--------|----|-------|----------|
| Q1 | 1V | 14.7V | 0.2-0.4V |
| Q3, Q4 | 0V | 15V | 0V |
| Q5, Q6 | 0V | -15V | 0V |

IC1

| | | | |
|------|------|----|------|
| 1 | 0V | 12 | 1.5V |
| 2-5 | 1.3V | 13 | 2.3V |
| 6 | 2.7V | 14 | 2.5V |
| 7-10 | - | 15 | 1.0V |
| 11 | 2.7V | 16 | 5V |

IC2

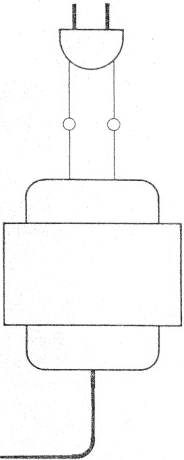
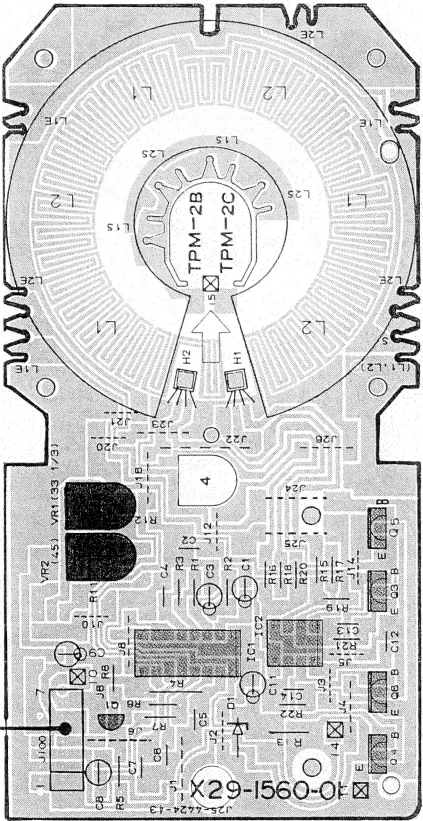
| | |
|-----|------|
| 1-3 | 0V |
| 4 | -15V |
| 5-7 | 0V |
| 8 | 15V |



FRONT

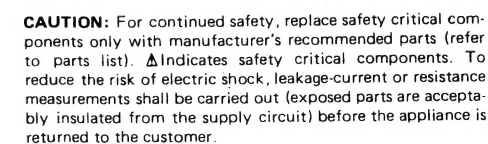
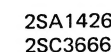
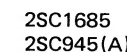
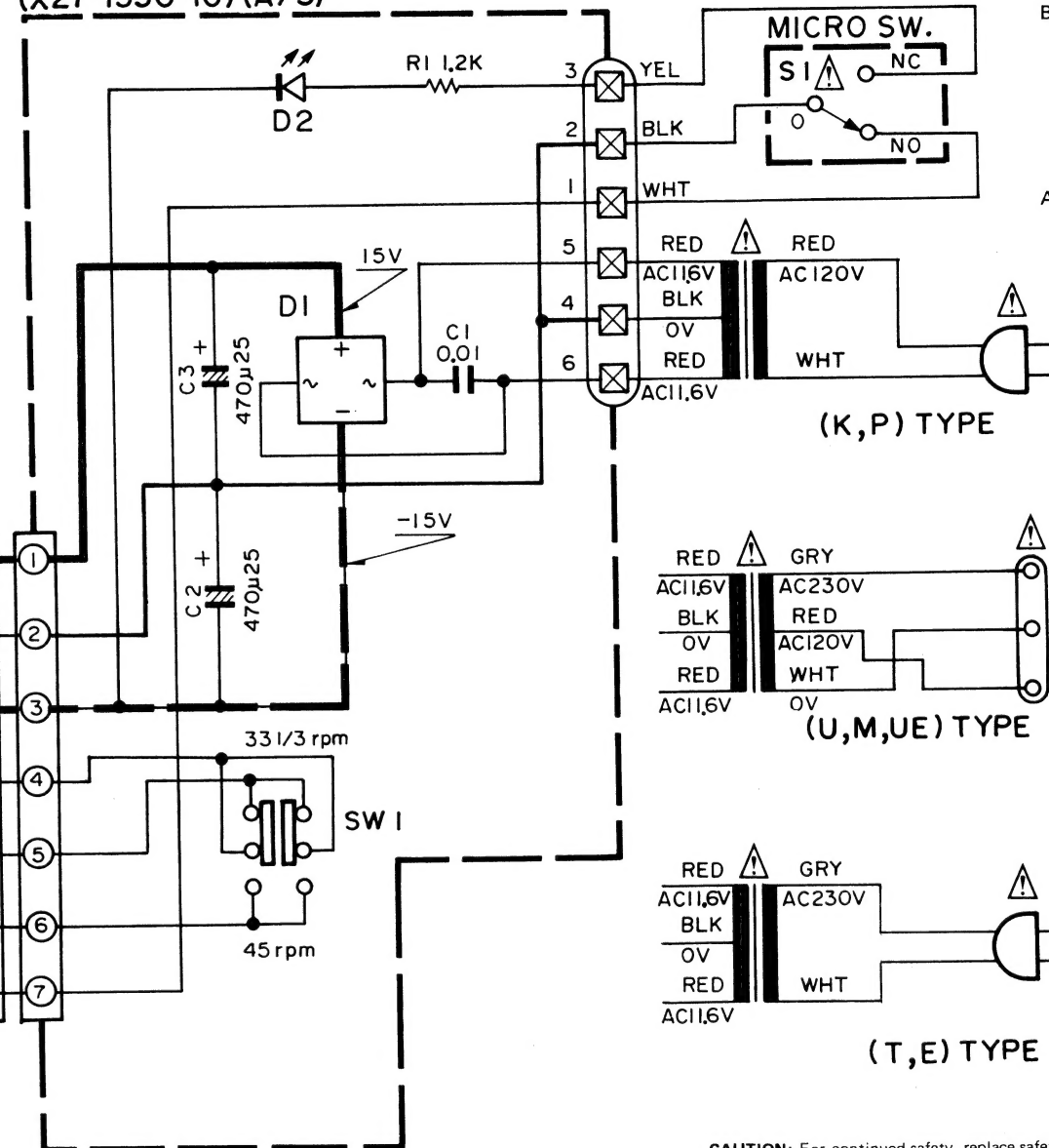
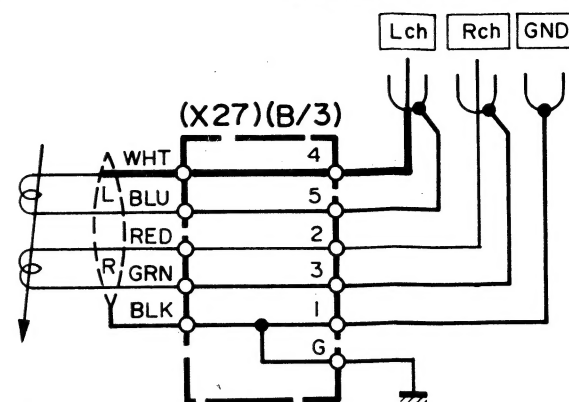
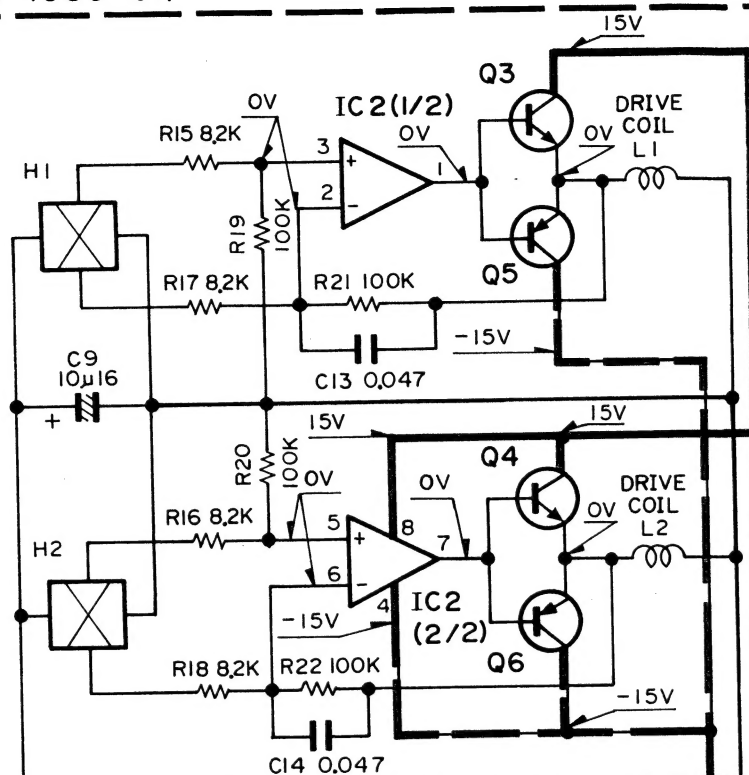
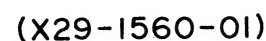
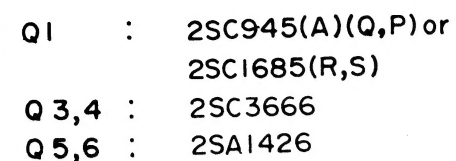
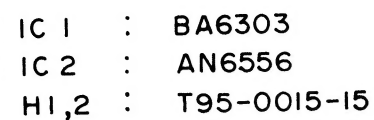


CONTROL CIRCUIT (X29-1560-01)
Component side view



POWER SUPPLY (X27-1550-10)
Foil side view

Refer to the schematic diagram for the values of resistors and capacitors.



D1 : W02
D2 : B30-0483-05
KD-56R(K)

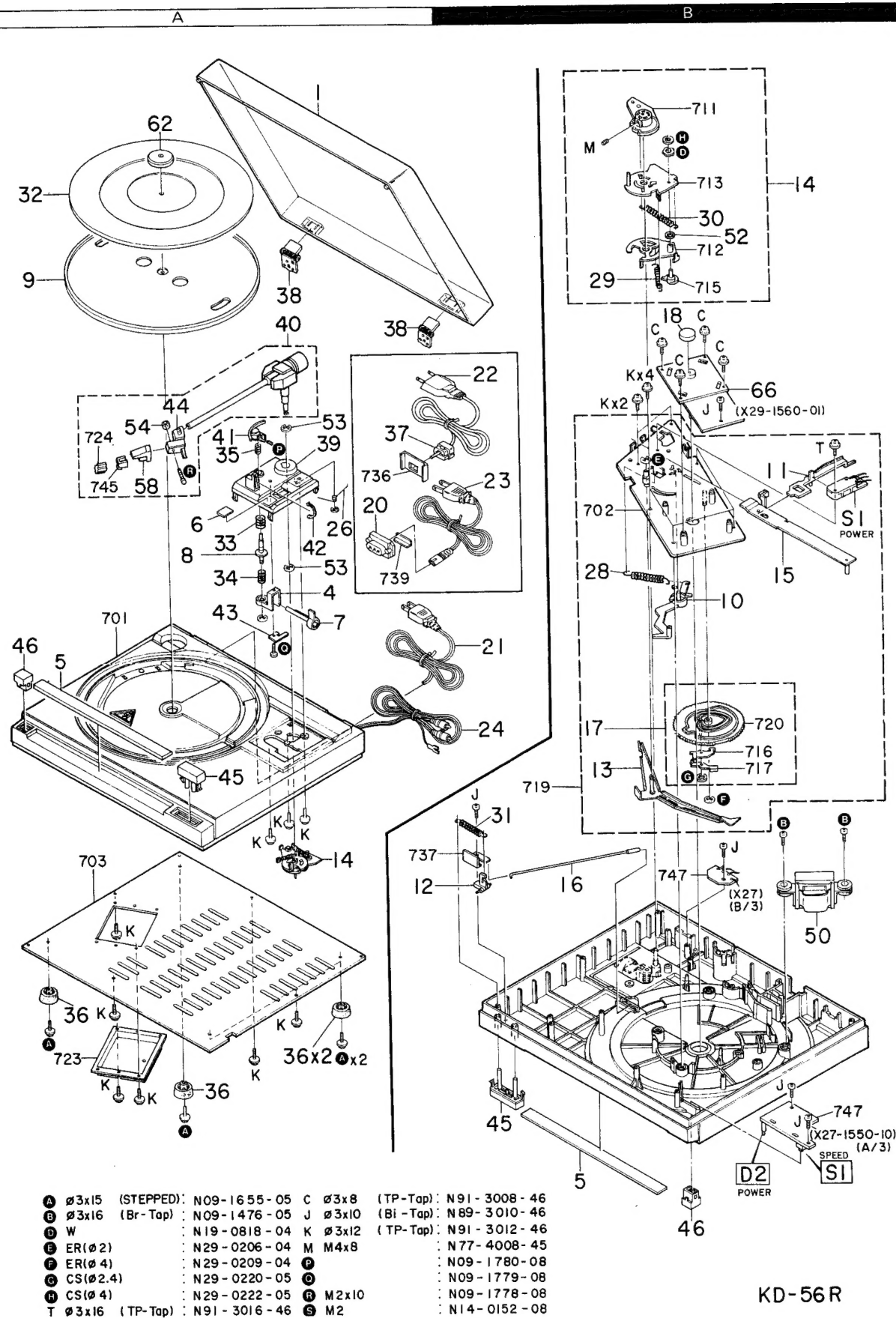
- DC voltages are measured with a high impedance voltmeter at 33 1/3 r.p.m. mode. Values may vary slightly due to variations between individual instruments or/and units.
- Les tensions c.c doivent être mesurées avec un voltmètre à haute impédance. Près de 33 1/3 r.p.m. en mode du lecture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments du mesure individuels.

- Die angegebenen Gleichspannungswerte wurden bei 33 1/3 r.p.m. in der Wiedergabe mit einem hochohmigen Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

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KD-56R KD-56R

EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

✱ New Parts

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| Ref. No. | Address | New Parts | Parts No. | Description | Destination | Remarks |
|----------|---------|-----------|-------------|-------------------------------|-------------|---------|
| 参照番号 | 位置 | 新 | 部品番号 | 部品名 / 規格 | 仕向 | 備考 |
| KD-56R | | | | | | |
| 1 | 1A | | A53-0076-02 | DUST COVER ASSY | KP1M1 | |
| 1 | 1A | | A53-0076-02 | DUST COVER ASSY | T1E1K2 | |
| 4 | 2A | * | A15-0054-08 | FRAME (TONEARM BASE) | | |
| 5 | 2A, 3B | * | B03-2289-03 | DRESSING PLATE | | |
| 6 | 2A | * | B03-2284-08 | DRESSING PLATE (TONEARM BASE) | | |
| - | | | B46-0092-03 | WARRANTY CARD | KK1K2 | |
| - | | | B46-0094-03 | WARRANTY CARD | U1UE1 | |
| - | | | B46-0095-03 | WARRANTY CARD | U1UE1 | |
| - | | | B46-0121-03 | WARRANTY CARD | P1 | |
| - | | | B46-0122-13 | WARRANTY CARD | E1 | |
| - | | | B46-0143-03 | WARRANTY CARD | T1 | |
| - | | * | B50-6704-00 | INSTRUCTION MANUAL (ENGLISH) | | |
| - | | * | B50-6705-00 | INSTRUCTION MANUAL (FRENCH) | P1M1E1 | |
| - | | * | B50-6706-00 | INSTRUCTION MANUAL (SPANISH) | M1 | |
| - | | * | B50-6707-00 | INSTRUCTION MANUAL (ARABIC) | M1 | |
| - | | * | B50-6709-00 | INSTRUCTION MANUAL (G.D.I) | E1 | |
| - | | | B58-0223-04 | CAUTION CARD (PRE-SET 120V) | U1 | |
| - | | | B58-0269-04 | CAUTION CARD | KK1K2 | |
| - | | | B58-0513-04 | CAUTION CARD (PRESET 220-240) | UE1 | |
| - | | | B59-0092-00 | SERVICE DIRECTORY | U1UE1 | |
| 7 | 2A | * | D10-1911-08 | LEVER (LIFTER) | | |
| 8 | 2A | * | D21-1325-08 | SHAFT | | |
| 9 | 1A | | D02-0043-35 | TURNABLE PLATTER | | |
| 10 | 2B | | D10-1067-13 | ARM | | |
| 11 | 2B | | D10-1081-13 | ARM | | |
| 12 | 2A | | D10-1367-04 | LEVER | | |
| 13 | 2B | | D10-1388-03 | ARM ASSY (CONNECT, R) | | |
| 14 | 2A, 1B | * | D10-1762-03 | ARM (RETURN B ASSY) | | |
| 15 | 2B | | D10-1394-03 | SLIDER ASSY | | |
| 16 | 2B | | D10-1402-14 | ROD ASSY | | |
| 17 | 2B | | D13-0230-03 | GEAR ASSY | | |
| 18 | 1B | | D39-0180-04 | DAMPER | | |
| △ | | | E29-0309-05 | WIRE CONNECTION CAP | KP1T1 | |
| △ | | | E29-0309-05 | WIRE CONNECTION CAP | E1K1K2 | |
| △ | 20 | 2A | E03-0102-25 | AC INLET | U1M1 | |
| △ | 20 | 2A | E03-0102-25 | AC INLET | UE1 | |
| △ | 21 | 2B | E30-0181-05 | AC POWER CORD | KP1K1 | |
| △ | 21 | 2B | E30-0181-05 | AC POWER CORD | K2 | |
| △ | 22 | 1B | E30-0459-05 | AC POWER CORD | E1 | |
| △ | 22 | 1B | E30-1416-05 | AC POWER CORD | T1 | |
| △ | 23 | 2B | E30-1305-15 | AC POWER CORD (INLET) | U1M1 | |
| △ | 23 | 2B | E30-1305-15 | AC POWER CORD (INLET) | UE1 | |
| 24 | 2B | | E30-1472-05 | AUDIO CORD | P1U1M1 | |
| 24 | 2B | | E30-1472-05 | AUDIO CORD | UE1T1 | |
| 24 | 2B | | E30-1472-05 | AUDIO CORD | E1 | |
| 24 | 2B | | E30-1473-05 | AUDIO CORD | KK1K2 | |
| 26 | 2A | * | G01-2033-08 | TORSION COIL SPRING | | |
| 28 | 2B | | G01-1768-04 | EXTENSION SPRING | | |
| 29 | 1B | | G01-1165-04 | EXTENSION SPRING | | |
| 30 | 1B | | G01-1169-04 | EXTENSION SPRING | | |
| 31 | 2B | | G01-1595-04 | EXTENSION SPRING | | |

E: Scandinavia & Europe **K:** USA **P:** Canada

U: PX(Far East, Hawaii) **T:** England **M:** Other Areas

UE : AAFES(Europe) X: Australia

KD-56R : K2,P1,M1,T1,E1

KD-56RC : K

KD-56RCL : K1,U1,UE1

⚠ indicates safety critical components.

KD-56R KD-56R

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|------------------------------------|---------------|-------------------|-------------------|---------------------------|-------------------------|--------------------|
| △ 50 | 3B | * | L01-7752-05 | POWER TRANSFORMER | T1E1 | |
| △ 50 | 3B | * | L01-7754-05 | POWER TRANSFORMER | U1M1 | |
| △ 50 | 3B | * | L01-7754-05 | POWER TRANSFORMER | UE1 | |
| 52 | 1B | | N14-0074-05 | RETAINING RING | | |
| 53 | 1A, 2A | * | N29-0244-08 | CANOE CLIP | KP1U1 | |
| 54 | 1A | | N14-0177-08 | HEXAGON NUT | M1UE1 | |
| 54 | 1A | | N14-0177-08 | HEXAGON NUT | T1E1K1 | |
| 54 | 1A | | N14-0177-08 | HEXAGON NUT | | |
| A | 3A | | N09-1655-05 | STEPPED SCREW (M3x15) | | |
| B | 2B | | N09-1476-05 | MACHINE SCREW (Ø3x16) | | |
| D | 1B | | N19-0818-04 | CORRUGATED WASHER | | |
| E | 2B | | N29-0206-04 | RETAINING RING (Ø2) | | |
| F | 2B | | N29-0209-04 | RETAINING RING (Ø4) | | |
| G | 2B | | N29-0220-05 | RETAINING RING (Ø2.4) | | |
| H | 1B | | N29-0222-05 | RETAINING RING (Ø4) | | |
| P | 1A | | N09-1780-08 | MACHINE SCREW | | |
| Q | 2A | | N09-1779-08 | MACHINE SCREW | | |
| R | 2A | | N09-1778-08 | MACHINE SCREW | KP1U1 | |
| R | 2A | | N09-1778-08 | MACHINE SCREW | M1UE1 | |
| R | 2A | | N09-1778-08 | MACHINE SCREW | T1E1K1 | |
| △ S1 | 2B | | S50-1015-05 | MICRO SWITCH | | |
| 58 | 1A | | T21-0138-05 | PICKUP CARTRIDGE | KP1U1 | |
| 58 | 1A | | T21-0138-05 | PICKUP CARTRIDGE | M1UE1 | |
| 58 | 1A | | T21-0138-05 | PICKUP CARTRIDGE | T1E1K1 | |
| 62 | 1A | | W01-0329-04 | EP ADAPTER | | |
| 66 | 1B | | X92-1050-02 | MOTOR ASSY | | |
| POWER SUPPLY UNIT (X27-1550-10) | | | | | | |
| D2 | 3B | | B30-0483-05 | LED(SLP-170B) POWER | | |
| C1 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C2 ,3 | | | CE04KW1E471M | ELECTRO 470UF 25WV | | |
| S1 | 3B | | S40-2330-05 | PUSH SWITCH (SPEED) | | |
| D1 | | | W02 | DIODE | | |
| CONTROL CIRCUIT UNIT (X29-1560-01) | | | | | | |
| C1 | | | CE04FW1HR22M | ELECTRO 0.22UF 50WV | | |
| C2 | | | CF92FV1H223J | MF 0.022UF J | | |
| C3 | | | CE04FW1C100M | ELECTRO 10UF 16WV | | |
| C4 | | | CF92FV1H223J | MF 0.022UF J | | |
| C5 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C6 | | | CF92FV1H103J | MF 0.010UF J | | |
| C7 | | | CQ93HP2A473J | MYLAR 0.047UF J | | |
| C8 | | | C90-1350-05 | NP-ELEC 2.2UF 50WV | | |
| C9 | | | CE04FW1C100M | ELECTRO 10UF 16WV | | |
| C11 | | | CE04FW1C330M | ELECTRO 33UF 16WV | | |
| C13 ,14 | | | CK45FF1H473Z | CERAMIC 0.047UF Z | | |
| VR1 ,2 | | | R12-5305-05 | TRIMMING PNT. (200K)SPEED | | |
| H1 ,2 | | | T95-0015-15 | HALL ELEMENT (H-300B) | | |
| D1 | | * | RD5.1(B2) | ZENER DIODE | | |

E: Scandinavia & Europe K: USA P: Canada
U: PX(Far East, Hawaii) T: England M: Other Areas
UE: AAFES(Europe) X: Australia

KD-56R : K2,P1,M1,T1,E1
KD-56RC : K
KD-56RCL : K1,U1,UE1

△ indicates safety critical components.

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|------------------|---------------|-------------------|-------------------|-------------------------------|-------------------------|--------------------|
| 32 | 1A | | G16-0343-12 | TURNABLE SHEET | P1U1M1 | |
| 32 | 1A | | G16-0343-12 | TURNABLE SHEET | UE1T1 | |
| 32 | 1A | | G16-0343-12 | TURNABLE SHEET | E1 | |
| 32 | 1A | | G16-0356-02 | TURNABLE SHEET | KK1K2 | |
| 33 | 2A | | G01-2031-08 | COMPRESSION SPRING | | |
| 34 | 2A | * | G01-2032-08 | COMPRESSION SPRING | | |
| - | | * | H01-7507-04 | ITEM CARTON CASE | P1M1T1 | |
| - | | * | H01-7507-04 | ITEM CARTON CASE | E1K2 | |
| - | | * | H01-7509-04 | ITEM CARTON CASE | K1 | |
| - | | * | H01-7510-04 | ITEM CARTON CASE | U1UE1 | |
| - | | * | H01-7511-04 | ITEM CARTON CASE | K | |
| - | | | H10-3308-12 | POLYSTYRENE FOAMED FIXTURE | U1UE1 | |
| - | | | H10-3308-12 | POLYSTYRENE FOAMED FIXTURE | K1 | |
| - | | | H10-3309-02 | POLYSTYRENE FOAMED FIXTURE | U1UE1 | |
| - | | | H10-3309-02 | POLYSTYRENE FOAMED FIXTURE | K1 | |
| - | | | H10-3310-12 | POLYSTYRENE FOAMED FIXTURE | KP1M1 | |
| - | | | H10-3310-12 | POLYSTYRENE FOAMED FIXTURE | T1E1K2 | |
| - | | | H10-3311-02 | POLYSTYRENE FOAMED FIXTURE | KP1M1 | |
| - | | | H10-3311-02 | POLYSTYRENE FOAMED FIXTURE | T1E1K2 | |
| - | | * | H10-3443-03 | POLYSTYRENE FOAMED FIXTURE | KP1U1 | |
| - | | * | H10-3443-03 | POLYSTYRENE FOAMED FIXTURE | M1UE1 | |
| - | | * | H10-3443-03 | POLYSTYRENE FOAMED FIXTURE | T1E1K1 | |
| - | | | H12-0191-14 | PACKING FIXTURE | KP1M1 | |
| - | | | H12-0191-14 | PACKING FIXTURE | T1E1K2 | |
| - | | * | H12-1160-04 | PACKING FIXTURE | | |
| - | | | H25-0029-04 | PROTECTION BAG (60X110) | KP1M1 | |
| - | | | H25-0029-04 | PROTECTION BAG (60X110) | T1E1K2 | |
| - | | | H25-0225-04 | PROTECTION BAG (850X450X0.03) | KP1U1 | |
| - | | | H25-0225-04 | PROTECTION BAG (850X450X0.03) | UE1T1 | |
| - | | | H25-0225-04 | PROTECTION BAG (850X450X0.03) | E1K1K2 | |
| - | | | H25-0232-04 | PROTECTION BAG (235X350X0.03) | | |
| - | | | H25-0625-04 | PROTECTION BAG (620X740X0.03) | M1 | |
| △ 36 | 3A | | J02-0145-14 | INSULATOR | | |
| 37 | 1A | | J42-0083-05 | POWER CORD BUSHING | P1T1E1 | |
| 38 | 1A | | J50-0103-15 | HINGE | KP1M1 | |
| 38 | 1A | | J50-0103-15 | HINGE | T1E1K2 | |
| 39 | 2A | | J19-2773-08 | TONEARM BASE ASSY | | |
| 40 | 1A | | J91-0323-08 | PICKUP ARM | KP1U1 | |
| 40 | 1A | | J91-0323-08 | PICKUP ARM | M1UE1 | |
| 40 | 1A | | J91-0323-08 | PICKUP ARM | T1E1K1 | |
| 40 | 1A | | J91-0327-08 | PICKUP ARM | K2 | |
| 41 | 1A | | J99-0036-08 | TONEARM LIFTER | | |
| 42 | 2A | | J19-2771-08 | REST HOOK | | |
| 43 | 2A | | J21-3969-08 | MOUNTING HARDWARE | | |
| 44 | 1A | | J92-0096-08 | SHELL | | |
| - | | | J61-0054-05 | WIRE BAND | KP1T1 | |
| - | | | J61-0307-05 | WIRE BAND | | |
| - | | | J61-0307-05 | WIRE BAND | E1K1K2 | |
| 45 | 2A,3B | | K29-2050-14 | KNØB ASSY(BUTTON)PLAY/CUT | | |
| 46 | 2A,3B | | K29-2080-04 | KNØB ASSY(BUTTON)POWER | | |
| △ 50 | 3B | * | L01-7751-05 | POWER TRANSFORMER | KP1K1 | |
| △ 50 | 3B | * | L01-7751-05 | POWER TRANSFORMER | K2 | |

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KD-56RC : K
KD-56RCL : K1,U1,UE1

△ indicates safety critical components.

KD-56R KD-56R

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Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

| Ref. No. 参照番号 | Address 位置 | New Parts 新 | Parts No. 部品番号 | Description 部品名 / 規格 | Desti- nation 仕向 | Re- marks 備考 |
|--|---------------|-------------------|--|---|------------------------|--------------------|
| IC1 IC2 Q1 Q1 Q3 ,4 Q5 ,6 | | | BA6303 AN6556 2SC1685(R,S) 2SC945(A)(Q,P) 2SC3666 2SA1426 | IC(FG TYPE SPEED CONTROLLER) IC(OP AMP X2) TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |

E: Scandinavia & Europe K: USA P: Canada
U: PX(Far East, Hawaii) T: England M: Other Areas
UE: AAFES(Europe) X: Australia

KD-56R : K2,P1,M1,T1,E1
KD-56RC : K
KD-56RCL : K1,U1,UE1

⚠ indicates safety critical components.

SPECIFICATIONS

Motor and turntable

Drive System.....Direct-Drive System
Motor.....Coreless and slotless FG ser-
vo motor
Turntable Platter.....30.0 cm (11-13/16")
Diameter
0.43 kg (0.95 lb) Weight
Speeds.....2 Speeds, 33-1/3 and
45 rpm.
Wow & Flutter.....0.028% (WRMS)
0.05% (DIN)
S/N (Rumble).....DIN: 43 dB (DIN A)
DIN: 74 dB (DIN B)

Tonearm

Type.....Static-Balanced Straight
Tonearm
Effective Arm Length.....225 mm (8-7/8")
Over-Hang.....15 mm (9/16")
Tracking Error.....+ 2°50' ~ - 2°
Usable Cartridge.....T4P Type

Cartridge

Furnished Cartridge.....MM cartridge T4P (V-67B)
Frequency Response.....20 ~ 20,000 Hz
Channel Separation.....Better than 22 dB
(1,000 Hz)

Output Voltage.....2.5 mV
(1,000 Hz, 5 cm/sec.)
Output Balance.....2.0 dB
(1,000 Hz, 5 cm/sec.)
Load Impedance.....47 k ohms
Stylus.....0.6 mil diamond
Optimum Tracking Force.....1.25 grams
Compliance.....7 × 10⁻⁶ cm/dyne
Replacement Stylus.....N-67B

Miscellaneous

Power Requirements.....AC 120 V, 60 Hz (U.S.A.
and Canada Models)
AC 220 V, 50 Hz (European
Models)
AC 240 V, 50 Hz (U.K.
Models)
AC 120 V/220-240V,
50/60 Hz (Others)
Power Consumption.....8 watts
Dimensions.....W 420 mm (16-17/32")
H 118 mm (4-5/8")
D 365 mm (14-3/8")
Weight (Net).....4.1 kg (9.02 lb)
Supplied Accessories.....EP adapter

Note:

We follow a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Model name and its accessories list

| Accessories Model name | Cartridge | Dust cover |
|----------------------------|-----------|------------|
| KD-56R K2 type | X | ○ |
| KD-56R P1,M1,T1,E1 type | ○ | ○ |
| KD-55RC K type | ○ | ○ |
| KD-56RCL K1,U1,UE1 type | ○ | X |

○ : including, X : not including

Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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